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"ASBESTOS"

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CONTENTS		
ASBESTOS IN THE CHEMICAL INDUSTRY	2	Page
IMPROVED TYPE OF HAMMER MILL	10	
MARKET CONDITIONS	16	
BUILDING	20	
AUTOMOBILE SALES	22	
PRODUCTION STATISTICS	30	
IMPORTS AND EXPORTS	32	
NEWS OF THE INDUSTRY	40	
ASBESTOS STOCK QUOTATIONS	50	
CURRENT RANGE OF PRICE	52	
BOOK LIST	54	
PATENTS	56	

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ASBESTOS IN THE CHEMICAL INDUSTRY

By: W. E. Sinclair, M.I.M.M.

It was, without doubt, a red letter day in the chemical industry when asbestos first proved to be the most effective acid resistant material. Previously, the industry suffered many difficulties, costly replacements and frequent delays due to the corrosive effect of mineral acids on filters and other parts of chemical plant and laboratory equipment.

The chemical industry is not only one of the most comprehensive and important in the world, but it embraces a multiplicity of functions besides the direct production of acids. The greater number are essential in the commercial field in the reduction of minerals, the making of medicaments, the preparation of insecticides and a hundred and one other chemical processes.

In the majority of these works or plants, whether wholly acid or otherwise, the matter of handling strong, and sometimes hot acids and corrosive lyes and gases is a common function that inevitably causes damage to any material exposed to such acidiferous compounds.

Acid resistant asbestos has overcome all these difficulties and therefore can be safely used wherever required.

In every instance where material is unavoidably exposed to such corrosive elements, asbestos fibres of the correct quality have been found to withstand the injurious effects for long periods without damage, whereas other material used for filtration and other similar applications soon proved useless due to the complete decomposition of the fabrics.

The ramifications of the industry, directly and indirectly, are so great and the acids and alkaline liquids used are so varied that, it goes without saying, any one class, type or grade of asbestos could not satisfactorily serve all and every branch of the industry.

Indeed, in the first place, it is only those varieties of asbestos possessing the property of being acid, alkali and heat resistant that prove wholly effective in the different spheres of utilization. The physical character of the asbestos, mainly as to fibre length and strength may also be an important consideration in certain circumstances.

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The varieties of asbestos that generally satisfy most of the requirements of the chemical industry are those contained in the Amphibole Group. Chrysotile asbestos, in the Serpentine Group, in most cases, does not qualify because, despite its property of high heat resistance, its capacity to resist the corrosive effect of acids, with one or two exceptions, is weak. As a result, chrysotile fibres are not often used in chemical factories especially where the fibres are likely to come in direct contact with strong acids or other solutions or gases having a highly corrosive tendency.

In the Amphibole range, it has been found that anthophyllite asbestos* is far superior to all other varieties in its power of resisting the effects of acids and alkalies. Even prolonged immersion in hot and strong acid in no way alters the physical characteristics of the fibres. Anthophyllite would be the perfect material in every sphere of the industry but for the fact that the fibres are usually short and often soft in texture and generally lack tensile strength, physical conditions that limit its general applications.

However, this class of fibre finds many end uses in various applications in chemical plants. The fibres sometimes serve as a useful caulking material in containers, tanks or special conduits where the possible leakage of poisonous gases must be prevented. This is particularly important where sulphuric acid, chlorine or ammonia are handled under pressure. The fibres also serve a useful purpose as an insulating medium, where heat must be retained in special chemical tests or reactions. The softish fibres also find a use as a pulp, often necessary for coating vessels temporarily as an insulant, or as a protective agency when, in laboratory work, glass bowls or other receptacles are suddenly exposed to direct flame. Many other examples, too numerous to mention in detail, are to be found in various chemical works or factories dealing with strong acids and lyes.

The one amphibole that fully satisfies the requirements of the chemical industry is crocidolite or Blue asbestos. The solubility of this class of asbestos when subjected to acid tests is very good, comparing closely to that of

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anthophyllite. Actually it may be said to be a better all round medium because it possesses valuable physical properties absent in anthophyllite. The most important of these are fibre length (up to three inches), and high tensile strength. In addition, the fibre mass is porous, a physical condition that constitutes a valuable filtration quality in wet processes providing, as it does, an effective means of filtering out foreign matter, as dust in gases, or extraneous particles in liquids. Indeed, crocidolite asbestos, either in its natural form or made up as spun yarn or woven fabric, is of the greatest value in filtering strong hot acids or corrosive lyes and, in fact, cannot be satisfactorily substituted in this particular usage.

In almost every type of mechanical equipment in a chemical plant, "Blue" asbestos plays a vital role, as for instance, jointing in fume mains, condensing systems and the like. Similarly, in acid pumps, asbestos gland packings obviate frequent renewals. Blue asbestos cloth is also used in a great many applications to provide separate partitions or screens in either gas or liquid compartments. Diaphragm cloths in various processes prove an effective adjunct in the same manner as the Blue asbestos mattresses on pulp digesters and vats, evaporators and stills.

The totality of valuable properties in crocidolite provide another outlet in the fabrication of asbestos-cement piping, mats and sheets, all essential products in chemical circuits.

Tremolite asbestos, in comparison, follows crocidolite, but like anthophyllite, it lacks the physical properties of fibre texture and strength, inherent in the Blue. Although the fibres may be long in some cases, they are usually softish or brittle and weak. In resembling anthophyllite in general characteristics, they correspondingly submit to a limited sphere of usefulness in the chemical field.

The last of the amphibole group of asbestos is amosite which, while providing fibres of good tensile strength and exceptional length, is the weakest in this group in its resistance to the corrosive effect of acids and alkalies. Consequently its use in the chemical industry and ancillary plants is rather limited except in extra special applications.

Besides the few examples of the use of amphibole

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asbestos varieties in the chemical industry, as quoted above, there are many other conditions of far greater import. To mention one or two examples: in electrochemical plants, electrolytical cells for manufacturing chlorine and dry potash, asbestos diaphragms are made of special quality fibres to stand up to the passing of ions and the whole electrolytical current. In the production of oleum and in the making of sulphuric acid, asbestos serves as the only satisfactory medium for holding the platinum catalyst. Asbestos cloth, usually made of crocidolite, is impregnated with finely divided platinum in solution and annealed. This process utilizes a larger quantity of asbestos than most others.

Strange as it may seem, these special amphibole fibres even find a most useful application in the preparation and processing of certain foodstuffs, sugar refining and wine filtration being but two examples of many others.

The durable quality of all these asbestos types, even when exposed to the extreme disintegrating effects of strong chemicals, ensures a relatively long life for the fibres. In the circumstances, therefore, the chemical sphere does not call for large tonnages of fibre, instead, emphasis is directed on the quality and grade to conform to the specialized demands of the industry.

This is simply another case of quality taking precedence over quantity, a truism that is strictly applicable in asbestos production generally.

*"Anthophyllite Asbestos: Its Place in Industry", by the Author.
"ASBESTOS", October 1959.

Work is under way on expansion of manufacturing facilities at the main plant of THE BAUER BROS. CO., Springfield, Ohio. The present project is part of the company's continuous long range expansion program. Also, Bauer has increased its laboratory and research facilities within the last year.

In Canada, The Bauer Bros. Co. (Canada) Limited, at Brantford, Ontario, has completed expansion affecting all departments, including sales, service, research, engineering and manufacturing.



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IMPROVED TYPE OF HAMMER MILL

An improved type of Hammer Mill has been developed specifically for the asbestos mining industry. The advantages claimed for this new mill are a higher rate of production with a lower operating and replacement cost than any other type of mill hitherto manufactured, and a wide adaptability to meet varying service and production requirements, together with greatly improved ease of service ability and maintenance.

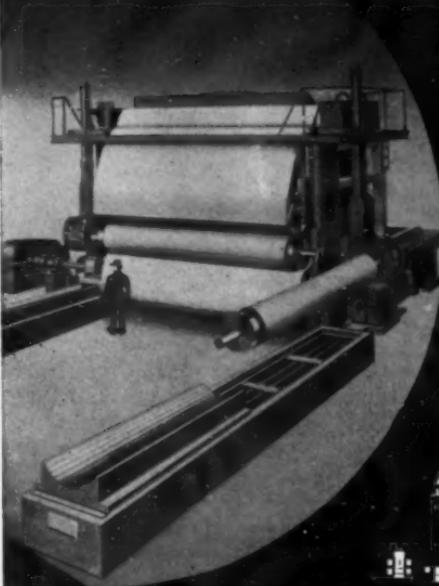
It is stated by the manufacturers that independent tests recently conducted by one of the largest asbestos producers in South Africa show that the Fiberok Mill produced asbestos fibre at less than one-third to one-tenth the cost in replacement spares and labor than four other different types of mill tested under the same conditions. The rate of production achieved by the Fiberok Mill was approximately 70% higher than the average of the other four types tested.

The mill can be very quickly altered to suit either right or left-hand operation, and the angle of discharge can be readily adjusted through 180° from horizontal, through the verticle, to horizontal on the other side. For ease of maintenance, the feed door can open in either direction.

The beater tips are carried on hinged hangers which allow shock loads to be absorbed, and are capable of adjustment to give either a one inch or $\frac{5}{8}$ inch clearance between the tips and the radial liners. The mounting of the beater tips is of special interest. It has previously been found that erosion of beaters always starts at any indentation—e.g., a bolt hole—in the surface of the beater, and that the rate of erosion is always greatly accelerated by any such surface irregularity. The Fiberok beater tips are secured by an ingenious clip-on method, assisted by centrifugal force, thereby dispensing with the need for bolts and bolt holes.

The rated capacity of the machine is 10 tons per hour of hard ore (banded ironstone or dolomite) passing through a 1½ inch ring. The machine costs £475 f.o.b. (\$1,330 U.S.) and is obtainable from Barberton Iron and Steel (Pty) Limited, Barberton, Transvaal, Union of South Africa.

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FRICITION MATERIALS STANDARDS INSTITUTE, INC., at its annual meeting held on June 21st, 1960, elected the following officers for the year starting July First, 1960: President—*George S. Lamson*, L. J. Miley Company; Vice-President—*Richard A. Riley*, World Bestos; Treasurer—*Harold Hodson*, The Bendix Corporation, Marshall-Eclipse Division; and, Secretary—*Miss Harriet G. Duscheck*.

Other members of the Board of Directors, serving with these officers, are: *Frank T. Gatke*, Gatke Corporation; *William J. Vachout*, Molded Materials Division, Carlisle Corporation; *James L. McGovern, Jr.*, Raybestos-Manhattan, Inc.; *S. Arthur Smith*, Silver Line Brake Lining Corporation; and, *Wade E. Canfield*, The S. K. Wellman Company.

THE PHILIP CAREY MANUFACTURING COMPANY has just published a four-page brochure listing all types of Carey industrial insulations and insulating cements for use in power, chemical, petroleum, petrochemical and manufacturing industries.

The newest industrial insulation products added to the Carey line are *Carey Calcium Silicate* and *Carey Mineral Wool Block* for temperatures up to 1900° F.

Careytemp, another new Carey industrial insulation offering heat resistance in a wide range up to 1600° F. and featuring exceptional resistance to moisture, acid and corrosion with practically no linear shrinkage, is also described in this new brochure.

Information on these industrial insulation products is available in new Carey literature (Form 6451). Requests should be sent to The Philip Carey Mfg. Co., 320 South Wayne Avenue, Cincinnati 15, Ohio.

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VINCENT A. SPINA, 61, died of a heart attack at his home in Bloomfield, New Jersey, on June 27th, 1960.

Mr. Spina was a Director of Scandura, Inc. He was formerly Treasurer and General Manager of the company but had retired from active participation more than a year ago after being with Scandura for nearly forty years.

NATIONAL GYPSUM COMPANY directors have authorized the acquisition of stock of *Allentown Portland Cement Company* through an exchange of shares.

National's formal exchange offer is expected to be mailed to Allentown's stockholders in August, 1960, after the Securities and Exchange Commission has processed National Gypsum's prospectus and registration statement.

THE FLINTKOTE COMPANY has reached a basis of understanding with the Province of Newfoundland providing for acquisition of the huge gypsum reserves on that eastern Canadian island. Under terms of the understanding, Flintkote would have immediate access to some forty square miles of Newfoundland's gypsum producing properties at Flat Bay and subsequently to an area comprising nearly 3,000 square miles from which it "intends to supply gypsum and gypsum products to the domestic U. S. market as well as parts of Canada".

The 48th Annual National Safety Congress of the NATIONAL SAFETY COUNCIL will be held October 17-21, 1960, in Chicago, Illinois. Sessions on industrial safety are scheduled for the Conrad Hilton, Pick-Congress, Sheraton Towers, Morrison and La Salle hotels; traffic safety, Pick-Congress; commercial vehicle and transit safety, La Salle; farm safety, Palmer House; school and college safety, Hamilton; and, home safety, Conrad Hilton.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good but there are increasing signs of a decline in economic activity which is just starting but may well continue for some months. Industrial production, influenced greatly by the low level of activity in the steel industry, showed its first decrease in many months during May. Automobile sales so far in July are only slightly ahead of the same period last year. The stock market has been trending lower influenced by the tense international situation and by the feeling of many investors that business is not extremely good and will not get markedly better for some time to come. The summer doldrums are evident in many lines and it will probably be September before any substantial improvement in the overall picture will be noted.

ASBESTOS — RAW MATERIAL.

June asbestos fibre shipments were 6,000 tons higher than the same period last year, with shipments for the first half currently running at a rate of 10% or 41,500 tons over the first half of 1959.

This increase is attributed entirely to the export market since domestic shipments for the Industry continue to be considerably below those of 1959, as a result of low activity in the floor tile and automotive industries.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. The market situation at the present time continues depressed except for government business where bidding is extremely keen. The outlook is dependent upon increased activity in the steel and related industries. If the steel rate remains depressed, the outlook on asbestos textiles would probably be unfavorable compared to last year.

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Asbestos Millboard. The market situation for this product appears steady and there doesn't seem to be any reason to expect much change during the rest of the year. The market situation at present for *Asbestos Saturated Paper* is stable and is expected to remain normal for the rest of the year.

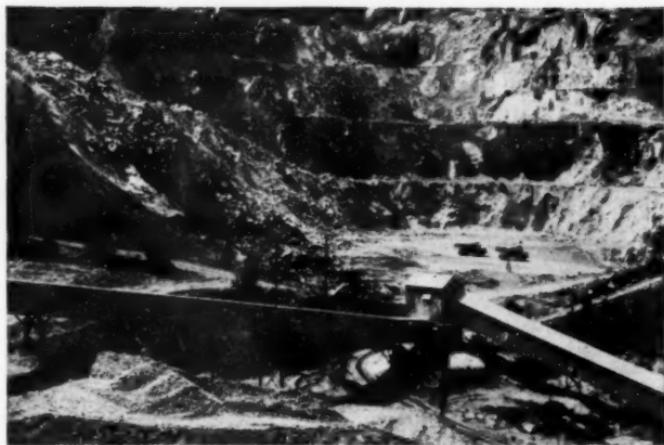
Asbestos-Cement Products. The market situation at the present time is extremely poor for products used for residential construction such as siding and roofing shingles. There has been a pick-up on products used for commercial and industrial construction such as corrugated, and certain types of flat sheets. The outlook for the rest of the year on residential products is poor, but products used in commercial and industrial construction should enjoy increasingly better business through the balance of the year.

High Pressure Insulation. The market situation at present shows some slight improvement on jobs available for bidding on contract work, but f.o.b. business is still at a very low level. Contract work is extremely competitive, and jobs are going at low prices. The outlook for the remainder of the year should indicate gradual improvement in the number of jobs coming up for bid, but due to extreme overcapacity in the industry the very active competition for jobs is expected to continue, and the generally low price levels will also probably continue well into next year.

Shingles—Roofing & Siding. The demand for asbestos siding has increased during the last sixty days and the outlook for the rest of 1960 is fair.

Asbestos Pipes. The market situation at present is rather uncertain due to the continued decline in the seasonally adjusted rate of housing starts. Competition is extremely severe from both foreign and domestic suppliers of waterworks and sewage pipes of all kinds. The outlook for the rest of the year should equal last year's provided the anticipated increase in housing starts occurs very soon.

The above comments have been made by various informed executives in the Industry. All comments are welcome.



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BUILDING

Construction contracts in the United States in June showed considerable improvement over May, although they remained below the high levels reported a year ago, F. W. Dodge Corporation reported.

Despite continued weakness in housing, gains in non-residential building and heavy engineering pushed the seasonally adjusted Dodge Index of construction contracts to 272 (1947-49 average equals 100), the highest point it has reached this year. The Index for May was 244.

Commenting on the trends shown by the figures, Dr. George Cline Smith, Vice President and Chief Economist of the construction news and marketing firm, said that the June improvement is a good sign for business activity in the second half of 1960.

"Because the contracts are for construction that will take place in the immediate future, and because construction is by far the nation's largest fabricating industry, the pick-up in contracts in June should provide a powerful business stimulant."

"Unfortunately, housing contracts still show no sign of an upturn. Outside of housing, however, nearly every important category of construction showed strength in June. Notable gains over a year ago were reported for commercial and industrial buildings, schools, churches, highways, and electric utilities."

June contracts, according to the Dodge figures, totalled \$3,472,276,000, down 5% from June, 1959.

A summary of the latest figures follows with percentage changes from June 1959 (in thousand dollars): non-residential building, \$1,110,144, up 5%; residential building, \$1,482,668, down 16%; and, heavy engineering, \$879,464, up 4%—total construction, \$3,472,276, down 5%.

Cumulative totals for the first six months of 1960 with percentage changes from the corresponding period of last year, were (in thousand dollars): non-residential building, \$5,802,347, up 1%; residential building, \$7,600,439, down 14%; and, heavy engineering, \$4,171,042, down 2%—total construction, \$17,573,828, down 7%.



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AUTOMOBILE SALES

May 1960

Passenger Cars	607,191
Motor Trucks	118,023
Motor Coaches	451
	725,665

In May 1959, a total of 660,278 motor vehicles were sold. In the five months of 1960 the total was 3,795,015.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

"Safety . . . Everywhere . . . All the Time" is the slogan of a new, continuing campaign of the NATIONAL SAFETY COUNCIL.

The campaign, aimed at making safety an around-the-clock family affair, will save industrial concerns from conducting separate on-the-job and off-the-job safety campaigns which often compete for employes' attention.

Kickoff for the campaign is a 23-minute, full color film depicting the involvement of a factory worker and his family in a near-tragic boating accident. Symbol of the campaign is a black circle within a yellow diamond.

The recall device is one of several items available to remind employes of the campaign—key-tags, posters, leaflets, pocket protectors and safety scoreboards for plant and home.

Further information about the campaign and available materials, as well as suggestions on how to start a *Safety . . . Everywhere . . . All the Time* campaign, may be obtained from the National Safety Council, 425 North Michigan Avenue, Chicago 11, Illinois.



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Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada

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exacting quality control



swift flow of quality fibres
and shorts to the market



Premier Joseph R. Smallwood of Newfoundland held talks June 16, 1960, with seventeen directors of the Johns-Manville Company and other companies, relative to the Baie Verte asbestos mines.

A great deal of development work in the Baie Verte area has already been done by Advocate Mines Limited, which holds the concession from the Newfoundland Government. Dr. M. J. Boylen, Company President, made an agreement in 1958 with a four company team, whereby the latter would take over financing and operations of the Advocate company.

The four companies are: Canadian Johns-Manville Company; Patino of Canada; Amet Corporation, a Panama Company; and, Financiere Belge de l'Asbeste-Ciment S.A., a Belgian firm. The Canadian Johns-Manville Company will take over active management of the Advocate Mines holdings.

The asbestos mine is not producing at present, but a small pilot plant is in operation. It is hoped that a 5,000 ton mill will be constructed. The estimated extent of the Baie Verte deposit is 25,000,000 tons of proven class four asbestos.

Publication of the 11th volume of the annual series, "*Techniques of Plant Maintenance & Engineering—1960*", has been announced in New York by CLAPP & POLIAK, INC.

Priced at \$10.00, postpaid, the published work is available from Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, New York, producer of the annual Plant Maintenance & Engineering Show and Conference.

The fifth catalogue in the new U.A.M. Group series has recently been published, and deals with *Magnum Sheets*, which has a bold profile and are suitable for the roofs and walls of large scale industrial buildings. Copies are obtainable from the U.A.M. Group Advisory Service, Tolpits, Watford, Hertfordshire, England.

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Subsidiaries of The Cape Asbestos Company, Ltd., London

A new coating, called PARIFCO, has been designed by INDUSTRIAL FINISHES COMPANY, INC. to give added protective qualities and beauty to Asbestos-Cement Sheets and other allied cement and concrete products.

When asbestos sheets are coated with this new alkyd-type coating re-enforced with chlorinated rubber, resistance is especially notable to alkalies from within as well as without.

Special reports on use of PARIFCO as a coating for asbestos-cement sheets and other products are now being prepared. They can be obtained by writing to the Technical Service Department, Industrial Finishes Company, Inc., 1119 Land Title Building, Philadelphia 10, Pennsylvania.

Erco-Bergen HOOKS

LACING HOOKS may be applied without washers by bending over.

RATCHET HOOKS with positive locking of washer

LOW COST FASTENERS FOR REMOVABLE TYPE INSULATING BLANKETS.

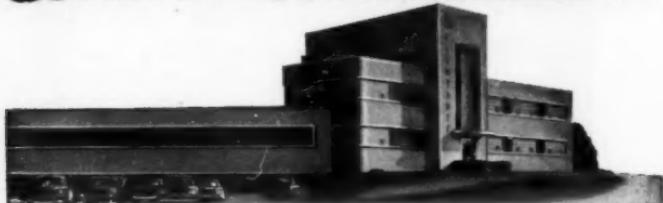
- Used extensively by contractors & ship-builders on TURBINE BLANKETS, VALVE & FLANGE COVERS, PUMPS, EXHAUST MANIFOLDS
- Yards report over 200% labor savings
- Neater appearance
- Long lasting
- Available in cadmium plate or stainless steel
- No special tools required
- Authorized distributor outlets throughout U.S. and Hawaii

Available in three sizes 2½" - 4" - 7"

Tel. IV 9-0700

EASTERN REFRactories CO., Inc.
20 Flanders Road Belmont 78, Mass.

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

...FLINTKOTE Asbestos Fibres

A wide variety of asbestos fibres now available for your use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

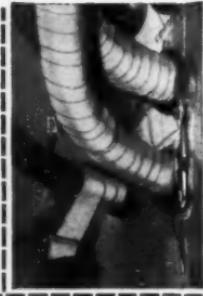
FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada





J-M Asbestos Tubing
selected asbestos yarn
braided into flexible,
fireproof, chemical-
resistant sleeving.
Inside diameters 1/64"-
2 1/2". Plain or
wire-inserted.



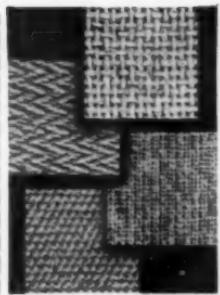
An important "plus" in J-M Asbestos FIBRES or TEXTILES . . .



Imagine—asbestos fibres some 1500 times finer than
a human hair . . . controlled to meet strict grading
requirements and over 20 textural classifications!



J-M No. 55 Tape
silicone-impregnated asbestos, cuts costs of fireproofing electrical cable . . . repels water . . . resists oil, fungus, mold, rot . . . and is non-sagging.



J-M Asbestos Cloth uniform textures from *light-proof* to open weave. Exceptional resistance to heat, flame, chemicals. In all standard grades.

QUALITY

is carefully controlled at Johns-Manville

Some of the most comprehensive quality standards ever devised by industry assure that all 60 or more grades of Johns-Manville crude and milled asbestos—and the asbestos textiles made from them—are *exactly* as defined.

Day in and day out, in every step of production, continuous testing is run to measure and control a score of properties. Wet and dry volumes, adsorption levels, settling rates, grit removal, density and degree of fiberization—nothing escapes the eye of J-M Quality Control.

This unrelenting attention to product detail explains the high acceptance of Johns-Manville in asbestos fibres today. It also helps explain how asbestos textiles and products fabricated from these raw materials can meet the highest standards.

For **FIBRE** literature write Asbestos Fibre Division, Box 1500, Asbestos, Quebec, Canada.

For **TEXTILE** literature write Asbestos Textiles Department, Box 14, New York 16, N. Y.

JOHNS-MANVILLE



PRODUCTION STATISTICS

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,240 lbs.

Production for March 1960	11,098.72
Valued at	£651,386.00
Production for March 1959	10,459.68
Valued at	£667,817.00
Production for April 1960	10,470.57
Valued at	£584,671.00
Production for April 1959	10,112.93
Valued at	£645,959.00
Production for May 1960	11,830.00
Valued at	£645,655.00
Production for May 1959	10,221.26
Valued at	£650,287.00

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2000 lbs.

Production for May 1960 (Quebec)	100,365
Other Provinces	5,849
<hr/>	
Total production for May 1959 was 91,257 tons.	106,214

On the occasion of the twenty-fifth anniversary of ASBEST-CEMENTINDUSTRIE "ASBESTONA" N. V., Amersfoort, Holland, the company exhibited its asbestos-cement products at the Industrial Fair in Utrecht. Besides the asbestos-cement products, a large piece of asbestos rock, from the mine of Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, was also on exhibit.



asbestos cement department

10, VIA SANTA TERESA
TURIN, ITALY

Manufacturers of all types
of
Fully Automatic

asbestos cement machinery

Daily output guaranteed according to the
International Standard Specification:

150 ton high pressure pipes
300 ton flat and corrugated sheets

IMPORTS AND EXPORTS

Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufacture Asbestos:

	March 1960
	Tons (2,240 lbs.)
From: Canada	51,033
Union of South Africa	2,460
Yugoslavia	689
Rhodesia (Ny)	641
Australia	571
United Kingdom	248
Other Countries	88
	<hr/>
	55,730
Valued at:	\$5,899,246

By Grades:

Crude, Chrysotile, Yugoslavia	689
Crude, Chrysotile, Union of South Africa	110
Crude, Chrysotile, Rhodesia (Ny)	357
Crude, Chrysotile, Other Countries	15
Crude, Blue, Australia	571
Crude, Blue, Union of South Africa	528
Crude, Amosite, Union of South Africa	1,646
Crude, Amosite, Rhodesia (Ny)	221
Textile Fiber, Canada	1,932
Shingle Fiber, Canada	6,433
Shingle Fiber, Other Countries	18
Paper Fiber, Canada	4,297
Other Fibers, Canada	38,371
Other Fibers, United Kingdom	248
Other Fibers, Union of South Africa	176
Other Fibers, Rhodesia (Ny)	63
Other Fibers, Other Countries	55
	<hr/>
	55,730

Manufactured Asbestos Goods:

	March 1960	
	Quantity (lbs.)	Value
Asbestos Yarn, Canada	31,311	\$ 20,433
Asbestos Yarn, United Kingdom	33,056	23,765
Asbestos Yarn, Israel	49,260	22,076
Asbestos Yarn, Other Countries	3,533	4,088

All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to
the testing of the finished product.

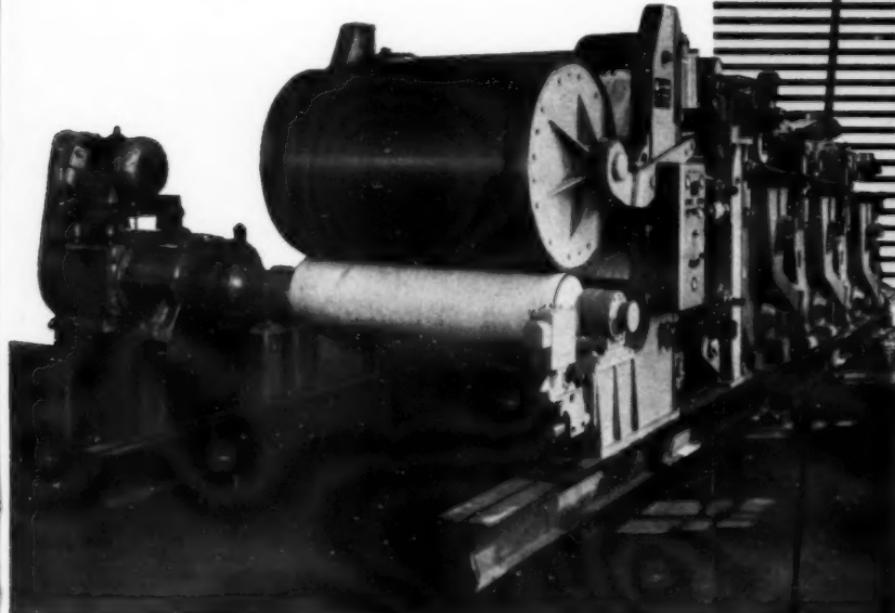
All machinery for wet or dry preparation of asbestos-cement / Asbestos
silos.

Sheet producing machines with one to three cylinder moulds, automatic
or semi-automatic combined production lines for flat and corrugated
sheets.

Piling equipment combined with cleaning and lubricating machinery
for flat and corrugated steel sheets, suitable also for automatic opera-
tion / punching and trimming machines / hydraulic presses.

Pipe winding machines for the production of pressure pipes of up to
5 metres [16 ft. 5 in.] length and 1000 millimetres [3 ft. 3 in.] dia / lathes
for pipes and joints / cut-off grinders / testing presses for pipes and
joints / calenders for the forming of plain and joint-fitted pipes / mand-
rel pull off machines / autoclaves for hardening of asbestos-cement
sheets and pipes as well as many other units, pumps and accessories.

Leaflets describing individual machines will be readily sent on request.



J.M.VOITH A.G.

S t. Poelten - Austria
P.O. B. 168 / Tel. 2501 / Teletype 01510

SM 746 e

Asbestos Packing, United Kingdom	48,872	15,443
Asbestos Packing, Other Countries	115	261
Asbestos Shingles (Impreg)		
Belgium	878,280	143,861
Other Countries	30,571	4,830
Asbestos-Cement Pipe & Fittings		
(Not Impreg) Mexico	415,973	33,765
Belgium	2,081,551	161,065
Italy	1,998,267	81,532
Israel	985,409	48,770
Other Countries	158,570	9,516
Asbestos-Cement Mfgs. Other		
(Not Impreg)	93,708	6,158
Asbestos Manufacturers—Others	..	5,772
	6,808,476	\$581,335

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials

Tons 2,240 lbs.

May 1960

From: Union of South Africa	3,638
Basutoland, Bechuanaland & Swaziland	3,980
Rhodesia & Nyasaland	3,159
Canada	7,241
Other Commonwealth Countries	
& Irish Republic	184
Foreign Countries	484
	17,786

Owners of high grade Tremolite deposit will consider offers to purchase, to extend exploration and development jointly, or to mine and market jointly. Located Southern Yukon Territory of Canada. Ships from the Orient dock 118 miles down the road at deep water port. Reply to Box No. 7RR-AA, "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

GEBR. WEHRHAHN

MASCHINENFABRIKEN

P. O. Box 209

DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes

socket pipes

flat and corrugated sheets

Projecting — Erecting — Handing over
in ready-for-operation condition

Get full information! Write now!



=====

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	April 1960
	Tons (2,240 lbs.)
To: Europe	205 \$ 39,266
Canada	65 10,929
South America	54 4,850
Central America & Mexico	25 3,125
Other Countries	17 1,486
	<hr/>
	366 \$ 59,656

Manufactured Asbestos Goods:

	April 1960
	Quantity
Asbestos Cement & Pipe Covering .Lbs.	652,624 \$ 188,988
Asbestos Textiles & Yarn .....Lbs.	89,075 68,273
Asbestos Packing	Lbs. 166,169 205,676
Asbestos Clutch Facing	No. 126,822 99,238
Asbestos Bk Lng (Mld & S.Mld) Lin.Ft.	111,751 55,655
Asbestos Brake Lining, Other	Lbs. 425,590 355,365
Asbestos Construction Material ..Lbs.	1,813,832 202,476
Asbestos Manufactures — Others	81,181
	<hr/>
	\$1,256,852



Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)



*If your
problem is . . .*

**FINISH
DRAINAGE
STABILITY
UNIFORMITY
LONG LIFE**

or PERFORMANCE generally

use

Albany DURASORB Felts

Ask your Albany Felt Sales Engineer about the new recommended shower-suction box arrangement for maximum felt cleaning. He can supply you with important information and machine diagrams which will be very helpful.



**ALBANY FELT
COMPANY**
ALBANY, N.Y.

Talk it over with your Albany Felt Sales Engineer ←

Exports From Canada

(Published by Dominion Bureau of Statistics)

		April 1960
	Tons (2,000 lbs.)	Value
<i>Crude</i>		
United States .....	..	\$ ..
United Kingdom .....	..	..
South America .....	..	..
Central America & Mexico .....	..	..
European Countries	8	7,521
Other Countries	5	4,421
	<hr/> 13	<hr/> \$ 11,942
<i>Milled</i>		
United States	11,043	\$2,259,438
United Kingdom	2,805	540,421
South America	1,341	238,954
Central America & Mexico	283	49,285
European Countries	6,292	1,320,885
Other Countries	4,646	799,735
	<hr/> 26,410	<hr/> \$ 5,208,718
<i>Shorts</i>		
United States	36,675	\$2,049,088
United Kingdom	2,062	119,547
South America	295	24,409
Central America & Mexico	87	3,690
European Countries	2,816	179,296
Other Countries	1,817	151,814
	<hr/> 43,752	<hr/> \$ 2,527,844
<i>Grand Total—</i>		
<i>Unmanufactured Asbestos:</i>	70,175	\$ 7,748,504
<i>Manufactured Asbestos Goods:</i>		
Brake Lining .....	..	\$ 13,301
Packing .....	..	84
Other Materials .....	..	3,859
	<hr/> ..	<hr/> \$ 17,244

Richard A. White has joined THE RUBEROID CO. as Director of Advertising and Sales Promotion. He succeeds **Maurice Hoare** who recently retired after 38 years of service.

Mr. White was previously associated with Fuller & Smith & Ross, Ruberoid's present advertising agency, since 1949 and, for the last seven years, had served as Account Executive on the Ruberoid account.

All that the name implies

HUYTUF

NEEDLED FELTS

- Last longer
- Start faster
- Increase production
- Improve product quality
- Lower felt cost
- Make optimum use of synthetics

For the complete story
talk to your Man-from-Huyck
or write us today.



Huyck Felt Co.,
Rensselaer, N. Y.;
Aliceville, Ala.;
Division of F. C. Huyck & Sons
In Canada: Kenwood Mills Ltd.,
Arnprior, Ontario.

NEW
HUYCK FELTS
★ INDUSTRIAL FABRICS

FIRST IN QUALITY • FIRST IN SERVICE SINCE 1870

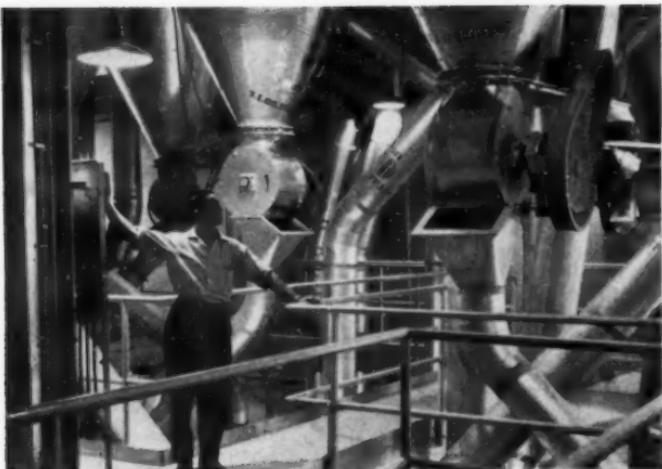
NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- Matthew L. Ladden, President, Ladden Asbestos Corporation of New Jersey, Irvington, New Jersey, August 15.
- Thomas Vyvyan Baragwanath, Chairman, Cork Asbstos Mines (Pty) Limited, Pietersburg, South Africa, August 18.
- R. J. Tobin, Chairman, Tilo Roofing Company, Stratford, Connecticut, August 18.
- Carl W. Lemmerman, President, Homestead Corporation, Hartford, Connecticut, August 19.
- C. H. Carlough, President, Carolina Asbestos Company, Davidson, North Carolina, August 20.
- Harry Coombs, Works Manager, Beldam Asbestos Company Limited, Hounslow, England, August 20.
- Matthew Balich, President, Matthew Balich Corporation, New York City, August 29.
- George Robinson, Secretary, Johnson's Company, Thetford Mines, Canada, August 30.
- A. W. Swartz, President, Linear Packing & Rubber Company, Philadelphia, Pennsylvania, August 31.
- John P. Syme, Vice President, Johns-Manville Corporation, New York City, September 1.
- Paul D. Gauer, Vice-President, Arnold Insulations, Inc., Chicago, Illinois, September 8.
- Abbott Coburn, President, Globe Rfg. Products Company, Inc., Whiting, Indiana, September 9.
- Pierre E. Donellon, Vice President—Charge of Construction, Tilo Roofing Company, Stratford, Connecticut, September 9.
- W. H. Hill, Chairman of the Board of Directors, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, September 9.
- H. William Bentley, Sales Director, Australian Asbestos (Pty) Limited, Merrickville, Australia, September 10.
- K. R. MacDonald, Director of Purchases, The Ruberoid Co., New York City, September 10.
- J. Gillmur Tyson, Jr., President, Consolidated Asbestos Corporation, Sellersville, Pennsylvania, September 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Raymond W. Howell has been named vice president-steel fabricating and **Robert M. Covert** vice president-hand brake division at UNION ASBESTOS AND RUBBER COMPANY, it was announced by **Edwin E. Hokin**, President.



*Established source, volume source,
independent source of proven-quality
chrysotile asbestos fibre*

With an annual productive capacity of 100,000 tons of high grade asbestos, Lake Asbestos of Quebec is an established supplier of high grade asbestos for world wide use. Write for information to Asarco International Corporation, 120 Broadway, New York 5, N.Y., distributor for LAQ.

Overseas Sales Agents:

ARGENTINA
(for Argentina, Uruguay)
Ladislao Kohn, Buenos Aires

AUSTRALIA
Mount Isa Mines Ltd., Sydney

BRAZIL
"Brasimel" Comercio e
Industria S. A.,
Rio De Janeiro, Sao Paulo

CHILE
Agencias Kapel Ltda., Santiago

COLOMBIA
Holanda Colombia, S. A.,
Barranquilla

ENGLAND
(for U. K., Spain, Portugal)
Metal Traders Ltd.,
Asbestos Division, London

FRANCE
Dieppedalle & Seailles, Paris
HOLLAND
(for The Netherlands,
Belgium, Switzerland)
Keyser and Mackay,
Amsterdam

ITALY
Amianto Del Lago, Torino

JAPAN
C. Itoh Co., Ltd., Tokyo & Osaka

NORWAY
Astrup & Son, Oslo

SWEDEN
Aktiebolaget
Ingenjorsfirma Titan,
Stockholm

WEST GERMANY
(for W. Germany, Austria)
Atlanta Bauer & Co., Bremen

ASARCO

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

Don L. Hinmon, Senior Operating Vice President, JOHNS-MANVILLE CORPORATION, recently announced three new General Managers for J-M operating Divisions at Toledo, Ohio, Chicago, Illinois, and New York.

T. H. Eaton, a Vice President of Johns-Manville Fiber Glass, Inc., is the new General Manager of the J-M Fiber Glass Division at Toledo. In his new responsibility, Mr. Eaton succeeds **Francis H. May, Jr.**, who has been elevated to J-M management at New York as Assistant Vice President for Finance.

E. H. Wells, a Vice President of Johns-Manville Dutch Brand Products Corporation, has been appointed General Manager of the J-M Dutch Brand Division at Chicago. The Chicago plant was recently rebuilt and its production capacity expanded about 50%. Mr. Wells succeeds **E. F. Boyle** with whom he has been associated for several months as Assistant General Manager. Mr. Boyle is retiring after 44 years service with J-M.

J. B. Jobe has been appointed General Manager of the J-M Industrial Insulations Division at New York, succeeding Mr. Hinmon who relinquished this responsibility to assume his new Office as Senior Operating Vice President of the three industrial Divisions. Mr. Jobe has been elected a Vice President of the Johns-Manville Products Corporation and will also continue as a Vice President of the Johns-Manville Sales Corporation.



WE'LL JUMP TO MEET YOUR SPECIAL NEEDS IN ASBESTOS TEXTILES . . .

Just let "U. S." know your asbestos textile requirements. We'll break our necks to develop the special yarn, fabric or tape that does the job for you. Spinning and weaving closely controlled for maximum uniformity at our modern Hogansville, Ga. plant.



Write Asbeston Dept., Textile Division
United States Rubber

Rockefeller Center, New York 20, N.Y.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of
Raw Asbestos Crudes
& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

D. W. Frasier, Jr. has been appointed Merchandising Manager for KEASBEY & MATTISON COMPANY'S asbestos paper, millboard, and electrical insulation products, it was announced by N. L. Barr, Vice-President—Sales.

Emil F. Krynick has been named to the newly created position of Operations Research Analyst at KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania, it was announced by R. L. Lanz, General Manager, Materials.

John R. Wilson has been named as Plant Engineer for KEASBEY & MATTISON COMPANY, Plant No. 4, Ambler, Pennsylvania, it was announced by H. G. Traver, Plant Manager. Mr. Wilson succeeds **Harmon C. Kinney** who died recently after 40 years' service with K&M.

G. D. Page, Jr. has been appointed to the position of Northwest District Sales Manager for the Pabco Roofing Division of FIBREBOARD PAPER PRODUCTS CORPORATION, it was recently announced by Ralph E. Heim, Roofing Division General Manager.

Mr. Page has an extensive background in retail building materials sales, retail merchandising, and for the past ten years has had a variety of sales assignments with Fibreboard in Southern California.

John S. Bullock has been promoted to Southern Division Manager for Industrial Sales, NATIONAL GYPSUM COMPANY. He succeeds **Walter S. Hamme** who retired July 1, 1960.

The Southern Division headquarters, formerly in York, Pennsylvania, will be transferred to Richmond, Virginia, and will be consolidated there with National Gypsum's Richmond District General Line Sales office under the direction of Manager **George Stewart**.

H. J. Cameron has been appointed as Product Manager—Pipe Department—Head Office, ATLAS ASBESTOS COMPANY LIMITED, it was announced by H. L. Falle, Pipe Marketing Manager.

Previous to this appointment, Mr. Cameron had been Pipe Supervisor—Toronto Branch. In his new position, Mr. Cameron will be responsible for merchandising "Turnall" Asbestos-Cement Pressure and Sewer Pipes through Canada.

H. L. Myers has been appointed Pipe Supervisor—Toronto Branch, replacing Mr. Cameron.

Specify



FOR INSULATION THAT ALWAYS PAYS OFF

UNIBESTOS, the Amosite Asbestos Pipe Covering and Block

Calcium Silicate Pipe Covering and Block

85% Magnesia Pipe Covering and Block

Mineral Fiber Block

Slip-On Insulation

Wrap-On Insulation

Lace-On Insulation

Turbine Blankets

Specially Fabricated Insulations

Insulating and Finishing Cements

Protective Mastic Coatings

Asbestos Textiles

Packing and Gasketing

U-200 Low Temperature Insulation

Write for Complete Information on Any Product

UNION ASBESTOS & RUBBER COMPANY

1111 W. Perry Street, Bloomington, Illinois

Over 30 years of specialization in quality asbestos products

James R. Price has been appointed Products Manager for ASBESTOS BONDING CORPORATION, Napa, California, it was recently announced by Patrick M. Tabor, President. Asbestos Bonding Corporation is a wholly-owned subsidiary of the Clute Corporation. Mr. Price will head up product development and research for the company, introducing new applications for asbestos to the stucco, plastering and asphalt manufacturing trades.

Mr. Price was previously associated with Star Stucco Products, Inc., of Fresno, California, and the Master Plasterers Association. His latest project was experimentation with the inclusion of asbestos fines in finish coat exterior stucco, which he states provides better color control, better joining and a favorable economic factor over old formulas.

Charles Wunderlich, Joint Managing Director of WUNDERLICH LIMITED, Sydney, Australia, manufacturers of asbestos-cement, metal and clay products, recently announced four new senior executive appointments in the company:

E. G. Scott, formerly Secretary and a Director, becomes Finance Director; **N. G. Barclay**, formerly Assistant Secretary, becomes Secretary; **W. J. Scotford**, formerly Technical Manager, becomes Manufacturing Division Manager; and, **F. C. R. Waters**, formerly N.S.W. Sales Manager, becomes Marketing Division Manager.

G. E. Gole has recently become General Works Manager of WUNDERLICH LIMITED, Sydney, Australia. This position was formerly held by **A. S. P. Sangster** who recently passed away.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

Cable address: Tessibre Salemarasino Italy
Telephone: 3 and 16 Sale Marasino (Brescia) Italy

Industrie Tessili Bresciane S. p. A.

SALEMARASINO (Brescia) ITALY

producers of well known conventional and special asbestos-cement plates-pipes-felts call the attention to their widely experienced "CONVERTIBLE FELTS" being transformable from flat to endless belt and viceversa, by a non metallic incorporated seam, Zatti's patents allowing:

- the instantaneous extraction of joining-wire to render flat the felt; (5 seconds!)*
- the quick mounting of biggest pipes-felts on machine (10 minutes!) without removing and replacing any machine components;*
- the very rapid joining of terminal edges of felts after mounting on machine; (5 minutes!)*
- the beginning of pipes production is no longer than 15 minutes totally, after application of each felt;*
- better stability, performance, highest wearing resistance and lasting than those of conventional ones.*



Kindly ask for information and offers!

A wide experience at disposal of asbestos-cement Industry!

MINERAL MARKET REPORT MMS NO. 3079

From: U. S. Bureau of Mines

World production of asbestos was 10% higher in 1959 than in 1958. Production in Canada increased 13.5% and estimates for Russian and Chinese production were increased 9 and 33%, respectively.

Production in the United States increased 3% over 1958, according to reports by producers to the Bureau of Mines, U. S. Department of the Interior. Domestic sources supplied 6% of the United States requirements of asbestos. Production in Arizona was limited to short fibers as no government purchase program was in effect in 1959.

Import of low-iron chrysotile from Southern Rhodesia declined but imports from British Columbia increased in 1959.

	1958	1959
United States:		
Production (sales)		
Short tons	43,979	45,325
Value (thousand dollars)	5,127	4,379
Imports (unmanufactured)		
Short tons	644,331	713,047
Value (thousand dollars)	58,314	65,006
Exports (unmanufactured)		
Short tons	3,026	4,461
Value (thousand dollars)	424	793
Apparent consumption		
Short tons	685,284	753,911
Exports of asbestos products		
Value (thousand dollars)	13,233	12,921
World:		
Production		
Short tons	2,060,000	2,270,000

UNITED STATES RUBBER COMPANY

Six-Month Report

Sales of United States Rubber Company for the second quarter of this year were \$256,089,046 compared with \$259,561,415 for the same period in 1959. Net income for the second quarter was \$8,557,312 compared with \$8,757,488 for the second quarter of 1959.

Sales during the first six months of 1960 totaled \$510,188,647, three-tenths of one per cent above the \$508,864,623 reported for the first half of 1959 and established a new first half record. Net income for the first six months totaled \$18,505,198, and was 2.4% below the \$18,956,286 reported for the first half of 1959. Earnings were equivalent to \$2.77 a share of common stock compared with \$2.85 for the same period last year.

THE FLINTKOTE COMPANY
Six-Month Report

For the first six months of 1960, The Flintkote Company reported net sales of \$114,355,349 compared with \$114,833,214 in the comparable period a year ago. Net income amounted to \$5,282,171 for the first half of 1960 compared with \$7,113,052 a year ago.

For the second quarter of this year, sales were \$65,893,259 compared with the record second quarter volume of \$66,314,298 recorded in 1959. Net income totaled \$4,197,337 compared with \$5,318,124 a year earlier.

NATIONAL GYPSUM COMPANY
Six-Month Report

Net sales of the National Gypsum Company and subsidiaries for the second quarter of 1960 were \$58,790,694 and net income for the same period was \$6,349,027.

Net sales for the first six months of 1960 were \$101,980,731 compared with \$106,305,515 during the same period last year. Net income for the first six months of 1960 was \$9,992,209 compared with \$11,733,015 during the same period of 1959.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		July 1960		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	\$3.25	\$3.50	\$3.50
American Brake Shoe	np	39	42	40
Armstrong Cork (Com)	1	42 1/4	48 3/4	43
Armstrong Cork (Pfd)	np	79	84	84
Asbestos Corporation	np	22 1/2	23	22 1/2
Philip Carey	10	24 1/2	26	25 1/8
Cassiar Asbestos Corp.	np	11	12 1/8	11 1/4
Celotex (Com)	1	20 1/8	23 1/8	23
Celotex (Pfd)	20	17	18	17 1/8
Certain-Teed	1	11	12 1/8	11 1/4
Fibreboard	np	29 1/4	34	31
Flintkote (Com)	5	33 3/4	37	34 3/4
Flintkote (Pfd)	np	81	84	84
Johns-Manville	5	51 3/8	61 1/8	55 1/8
National Gypsum (Com)	1	49 1/4	56 1/2	51 1/2
National Gypsum (Pfd)	np	90	95	95
Porter, H. K.	100	90	91 1/2	91 1/2
Raybestos-Manhattan	np	60 1/2	62 1/2	61
Ruberoid	1	34	38	35 1/4
Unarco	5	7 3/8	8 1/4	7 3/8
United Asbestos	1	\$3.75	\$4.20	\$3.85
U. S. Gypsum (Com)	4	98 1/4	113 1/4	101 1/4
U. S. Gypsum (Pfd)	100	152 1/2	157	156 1/2
U. S. Rubber (Com)	5	48 3/8	54 3/8	50 1/2
U. S. Rubber (Pfd)	100	153	155 1/2	155

JOHNS-MANVILLE CORPORATION

Six-Month Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies in the second quarter of 1960 were \$8,858,000, compared with 10,274,000 in the corresponding period last year. Sales in the second quarter of 1960 were \$99,525,000, compared with \$101,572,000 in the second quarter of 1959. Earnings per share of common stock in the second quarter of 1960 were \$1.04, compared with \$1.24 in the same period of 1959.

For the first six months of 1960 sales were \$174,326,000 and earnings were \$13,510,000 or \$1.59 per share, compared with sales of \$176,314,000 and earnings of \$14,920,000 or 1.80 per share in the same period of 1959.

RAW ASBESTOS DISTRIBUTORS

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AND SOUTH AFRICAN ASBESTOS**

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E N G L A N D**

CURRENT RANGE OF PRICE

As of August 10, 1960

ARIZONA—

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	\$1,475.00 to	\$1,800.00
No. 2 Crude (soft)	830.00 to	1,050.00
Group-3 (Filtering & Spinning)	350.00 to	450.00
Group-4 (Plastic & Filtration)	190.00 to	250.00
Group-5 (Plastic & Moulding)	125.00 to	177.00
Group-7 (Refuse & Shorts)	60.00 to	100.00

CANADA—

Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	\$1,410.00 to	\$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster) ..	..	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville,
Vt.

Group No. 3 (Spinning & Filtering)	\$ 353.00 to	\$ 440.00
Group No. 4 (Shingle Fibre)	181.00 to	218.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster) ..	..	86.00
Group No. 7 (Refuse or Shorts)	41.00 to	75.00

THE RUBEROID CO.

Six-Month Report

The Ruberoid Co. reported that net sales for the quarter ended June 30, 1960, totaled \$32,126,934 and net income amounted to 1,366,736. For the second quarter of 1959, sales totaled \$32,192,206 and net income was \$1,750,209.

Net sales for the six months ended June 30, 1960, totaled \$56,904,750 on which the company earned \$1,839,880, or 96¢ per share on 1,907,951 average number of shares of capital stock outstanding during the period. For the first half of 1959 sales totaled \$60,870,848 and net income was \$2,921,437, or \$1.54 per share on 1,898,977 average shares.



Drastic reduction of heat loss with
PABCO PRECISION-MOLDED CALTEMP
a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

PABCO
INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

BOOK LIST

The Asbestos Factbook. 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint). 25c per copy

Tests for Cotton Content. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint), 20c each

Brake Linings of Various Types. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas, \$1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks \$1.00 per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

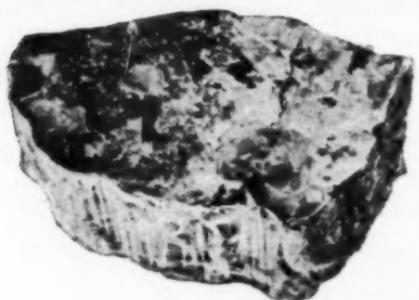
THE CAPE ASBESTOS CO. LTD.

Annual Report

The 67th Annual General Meeting of The Cape Asbestos Company Limited was held on June 10th, 1960, and the Report of the Directors and the Statement of Accounts for the year ended December 31, 1959, were submitted.

The net profit of the Group, after all charges except taxation, amounted to £1,581,436, against £1,384,396 in 1958. In arriving at this figure the surplus realized on the sale of quoted investments, amounting to £92,088, is included. Depreciation, it should be noted, has again absorbed a very substantial sum at £759,806 against £704,369 last year, and taxation, though at a lower rate, requires £637,368 this year compared with £630,130.

Built on a rock



Crude Asbestos is the rock on which
B.B.A. is built. We use it to make everything
for which asbestos is best, from yarns and
cloths to all types of jointings and packings
—and the world famous MINTEX friction
materials and MINTEX Industrial Plastics.
Our factory leads in production; our
Research Laboratories keep us at the head
of development; Asbestos is our subject.

British Belting & Asbestos Ltd

CLECKHEATON - YORKSHIRE - ENGLAND



PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Dry Process Beneficiation Apparatus, No. 2,928,542. Granted on March 15, 1960, to M. E. Mencimer. In an apparatus for the dry concentration of asbestos fibre, mica flakes, and like minerals from ores thereof, broken or crushed ore is fed past a series of rotating suction elements, the suction being so controlled that the lighter fibre or flakes are retained against the element while heavy gangue materials drop off into waste bins. In another part of its rotation path the mineral particles are blown from the surfaces of the suction elements.

Machine for the Continuous Manufacture of Asbestos-Cement Pipes, No. 2,929,447. Granted on March 22, 1960, to R. Fourmanoit (assigned to Johns-Manville Corporation, New York City). To improve the uniformity and strength of asbestos-cement pipes, the pipes are continuously formed from a wet sheet or felt of an asbestos-cement paste carried on a continuously moving endless felt trained over heavy bottom rollers.

Multi-Colored Asbestos-Cement Product and Process, No. 2,929,735. Granted on March 22, 1960, to B. H. Field and J. W. Mayo (assigned to The Patent & Licensing Corporation, New York City). Method for making from a mixture of asbestos fibre and portland cement a shingle having on its surface a permanent embossed color design. The asbestos-cement sheet material is simultaneously embossed and pigmented, while the cement is still wet, with at least one embossing roll divided into groups of adjacent parallel lines, each of which group applies a different color to the sheet.

Sound Absorptive Structure, No. 2,933,147. Granted on April 19, 1960 to B. O. Stewart and H. J. Schneiter (assigned to National Gypsum Company, Buffalo, New York). In the making of a monolithic acousticalized wall surface, a plaster comprising asbestos fibre, hydrated lime, a foaming agent, and water is mixed for varying periods of time and applied to the wall base.

Erosion Control, No. 2,935,853. Granted on May 10, 1960 to L. E. Weeks and C. L. Wilson (assigned to Monsanto Chemical Company, St. Louis, Missouri). To minimize water and wind erosion of soil surfaces, the surface is coated with a mixture of bentonite, asbestos fibre, and a water-soluble salt of alginic acid, e.g. ammonium alginate, or an alkali metal salt of alginic acid, such as potassium alginate or sodium alginate.

Cut shipboard insulation costs with R/M lagging cloths



Raybestos-Manhattan manufactures *all* asbestos cloths indicated in the expanded Federal Specification SS-C-00466b (Navy—ships) dated Feb. 3, 1960, covering cloth, thread and tape—asbestos.

Our widely used SRC finish on the shipboard lagging cloths covered by this specification improves appearance, reduces paint absorption (only one coat needed), prevents raveling, speeds installation aboard ship and in steam power plants.

Samples of any of these cloths are available upon written request. An R/M salesman will be glad to call on you with complete information.



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